

REMARKS

Claims 1-27 are pending and stand rejected. Specifically, claims 1-5, 7-11, 13-17, 19-20, 22-24 and 26-27 stand rejected as allegedly anticipated by Publication No. 2002/0130326A1 to Tamura et al. ("Tamura"). Claims 6, 18 and 25 stand rejected as allegedly unpatentable over Tamura in view of Patent No. 7,026,597 to Cok. Finally, claims 12 and 21 stand rejected as allegedly unpatentable over Tamura in view of in view of Patent No. 6,424,326 to Yamazaki et al. ("Yamazaki").

These rejections should be reconsidered and withdrawn.

Claim 1 has been amended to incorporate the recitations of claims 5 and 6 (now cancelled). Claim 1 has also been amended to recite "at least one photodetector arranged on one of said side surfaces that detects light emitted from the light emitting devices." Independent claim 14 has been amended to incorporate a portion of claim 18, reciting "forming a photodetector that detects light emitted through the least one side surface of the substrate." Similarly, independent claim 22 has been amended to incorporate the recitations of claim 25 (now cancelled), thereby reciting "measuring light emitted from each of the light emitting devices by a photodetector formed on a side surface of the substrate, said side surface substantially perpendicular to the upper surface of said substrate."

Support for the amendments is found throughout the specification, for example, at Figs. 3 and 4, as well as, paragraphs 19-20 of the specification. Referring to Fig. 3, the specification shows photodetector 360 mounted on the side-surface of the substrate 310

for receiving and measuring the intensity light emitted from the LEDs. Entry of the amendment and reconsideration on the merits are respectfully requested.

In view of the amendments, Applicants respectfully submit that independent claims 1, 14 and 22 are patentable over Tamura. The independent claims are also deemed patentable over Tamura in view of Cok or Yamazaki.

Tamura is directed to a lighting device with a plurality of LEDs formed on a substrate. The LEDs are dispersed over the surface of the substrate and are covered by a transparent resin layer. See Abstract and Figs. 2A and 2B. A photodetector is formed inside, on the surface or in the vicinity of the transparent layer and detects light propagated through the transparent resin layer. Tamura does not disclose nor suggests a photodetector arranged on a side surface perpendicular to the upper surface for detecting light emitted from the LEDs.

Cok does not cure this deficiency. The reference is directed to a display having elongated photosensors. Referring to Fig. 1, the Cok shows elongated photosensor 20 having substrate 50, first electrode 52, second electrode 58 and first semiconductor 54. Opaque portion 60 is formed on both sides of the photosensor 20 and completely surrounds the photosensor. See col. 2, lines 26-46. Cok discloses that “the semiconductor layers are arranged in layers parallel to the substrate.” Col. 3, lines 8-9. The arrangement is shown at Fig. 5 where photosensors 20 are positioned about periphery 14 of display area 10. Fig. 5 also shows opaque portions 60 surrounding photosensors 20.

The arrangement disclosed in Cok, even if combined with Tamura, fails to render the independent claims unpatentable. Specifically, the photosensor arrangement of Cok places the photosensors around a periphery in parallel with the LEDs of the display area. Cok does not disclose nor suggests a photodetector arranged on a side surface *perpendicular* to the upper surface and detecting light emitted from the LEDs.

For at least these reasons, Applicants respectfully submit that independent claims 1, 14 and 22 are patentable over Tamura and Cok. The remaining dependent claims depend from a patentable independent claim and are considered patentable at least by the virtue of this dependence. Accordingly, additional reasons for patentability of each dependant claim will not be proffered.

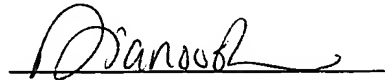
Reconsideration and withdrawal of the claim rejections are respectfully requested.

CONCLUSION

Applicants respectfully submit that the claims are in condition for allowance. A notice to this effect is respectfully requested.

If any point remains that is deemed best resolved through a telephonic conversation, the Office is hereby requested to contact the undersigned directly.

Respectfully submitted,



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